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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/683,794	02/15/2002	Takenori Kohda	JP920000363US1	2202	
877 7	590 11/01/2005		EXAMINER		
IBM CORPO P.O. BOX 218	RATION, T.J. WATS	BASEHOAR	BASEHOAR, ADAM L		
	HEIGHTS, NY 10598	ART UNIT	PAPER NUMBER		
	•	2178			

DATE MAILED: 11/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)						
Office Action Summary		09/683,79	4	KOHDA ET AL.						
		Examiner		Art Unit						
		Adam L. B	asehoar	2178						
Pε	The MAILING DATE of this communication apperiod for Reply	ears on the	cover sheet with the c	orrespondence ac	ldress					
•	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
St	atus									
	1) Responsive to communication(s) filed on <u>08/15</u>	5/05								
	<u> </u>		nn-final							
	(a) This action is FINAL . 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is									
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Di	sposition of Claims	•								
4)⊠ Claim(s) <u>1-24 and 28-35</u> is/are pending in the application.										
	4a) Of the above claim(s) is/are withdrawn from consideration.									
	5) Claim(s) is/are allowed.									
	6)⊠ Claim(s) <u>1-24 and 28-35</u> is/are rejected.									
	7) Claim(s) is/are objected to.	_								
	8) Claim(s) are subject to restriction and/or election requirement.									
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Αļ	oplication Papers									
9) The specification is objected to by the Examiner.										
	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).										
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.										
Pr	iority under 35 U.S.C. § 119									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 										
Atı	achment(s)									
	Notice of References Cited (PTO-892)		4) Interview Summary							
2) 3)	Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 09/08/05.		Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		O-152)					

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DETAILED ACTION

1. This action is responsive to communications: The Amendment file d08/11/05 to the original Application filed on 02/15/02, which claims priority to foreign priority to Japanese application 2001-039150 filed 02/15/01.

- 2. Claims 25-27 have been cancelled as necessitated by Amendment.
- 3. The rejection of claims 25-27, under 35 U.S.C. 101 has been withdrawn as necessitated by Amendment.
- 4. Claims 31-35 have been added as necessitated by Amendment.
- 5. The rejection of claim 8 under 35 U.S.C. 112, second paragraph, has been withdrawn as necessitated by Amendment.
- 6. Claims 1-2, 4-5, 9-10, 12-14, 19-20, 23-40 and 30 remain rejected under 35 U.S.C. 102(e) as being anticipated by Vu et al (US-2002/0078091 06/20/02).
- 7. Claims 3 and 11 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Vu et al (US-2002/0078091 06/20/02).
- 8. Claims 1-24 and 28-35 are pending in the case. Claims 1, 6, 9, 12, 15, 19, 21-23, and 8-30 are independent claims.

Information Disclosure Statement

9. The IDS filed 09/08/05 has been considered by the Examiner.

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Claim Rejections - 35 USC § 102

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10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 11. Claims 1-2, 4-5, 9-10, 12-14, 19-20, 23-24, and 30 are rejected under 35 U.S.C. 102(e) as being anticipated by Vu et al (US-2002/0078091 06/20/02).

-In regard to independent claim 1, Vu et al teach determining the layout of a digital document (Page 4: Paragraph 0069: "the summarizer 14 parses the target document 16 into a hierarchical document tree") based on digital document display from historical data acquired previously for said document (Page 2: Paragraphs 0020-00230)(Fig. 2: 18, 19, 20, and 22);

generating data relating to the display form of said digital document (Page 4: Paragraph 0070: "The total weights generated...by the summary generator 14."); and

a user interface for displaying said digital document based on said data relating to said display form (Page 5: Paragraph 0075: "Finally, the summary.....in a linear order")(Fig. 1: 21).

In regard to dependent claim 2, Vu et al teach wherein said layout engine (Page 3: Paragraph 0038) uses said historical data (Page 2: Paragraphs 0019-0020)(Fig. 2: 19) when allocating a display area for each area constituting said document (Pages 4 & 5: Paragraphs 0074-0075).

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In regard to dependent claim 4, Vu et al teach preparing summaries for sentences (Page 4: Paragraph 0069: "section layer 32, paragraph layer 34, a phrase layer 36") in said digital document based on said historical data (Page 2: Paragraphs 0019-0020)(Fig. 2: 19);

wherein said summaries are arranged in accordance with said layout determined by said layout engine (Page 3: Paragraph 0038: "On the basis...for the target document"), and generates data for display (Page 5: Paragraph 0075: "Finally, the summary.....in a linear order").

In regard to dependent claim 5, Vu et al teach based on said historical data (Page 2: Paragraphs 0019-0020)(Fig. 2: 19) determining which parameters are required for summarization (Page 4: Paragraph 0069), and preparing a summary for each of the predetermined sentence elements that constitute the sentences of said digital document (Page 4: Paragraph 0074)(Fig. 4).

In regard to independent claim 12, Vu et al teach an input function for entering a digital document to be displayed (Page 4: Paragraph 0069: "the summarizer 14 parses the target document 16 into a hierarchical document tree"); and

A display function for displaying the digital document using a predetermined display form (Page 3: Paragraph 0038) and displays a summary that was prepared based on historical data related to a display form previously used (Pages 2 & 4: Paragraphs 0020-0030 & 0069-0071: i.e. based on the training data derived from the historical data).

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In regard to dependent claim 13, Vu et al teach determining which parameters are required for the preparation of said summary based on said historical data (Page 4: Paragraphs 0069-0071), and preparing said summary of said target sentence based on said parameters (Page 4: Paragraph 0074).

In regard to dependent claim 14, Vu et al teach based on said historical data (Page 4: Paragraph 0069-0071), said display function (Page 5: Paragraph 0075: "summary selector displays...a linear order")(Fig. 1: 21) displays said summary in areas arranged for the individual elements that constitute said document (Page 4: Paragraphs 0074-0075).

In regard to independent claims 9, 19, 23, 30 and dependent claims 10, 20, and 24, Vu et al teach a process for obtaining a target sentence to be summarized (Page 4: Paragraph 0069: "section layer 32, paragraph layer 34, a phrase layer 36");

a process for obtaining historical data related to a summary for said target sentence from a summarization history database (Page 2: Paragraphs 0020-0030)(Fig. 2: 18, 19, 20, and 22) in which historical data are stored related to a previous summarization of a predetermined sentence (Page 3: Paragraph 0038: "The context miner....from the training data"); and

determining which parameters are required for the preparation of said summary based on said historical data (Page 4: Paragraph 0069), and preparing said summary of said target sentence based on said parameters (Page 4: Paragraph 0074).

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Claim Rejections - 35 USC § 103

- 12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 13. Claims 3, 11, and 31-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vu et al (US-2002/0078091 06/20/02).

In regard to dependent claims 3 and 11, Vu et al teach a history database (Page 2: Paragraphs 0019-0020)(Fig. 2: 19), wherein after said document has been displayed via the interface (Page 5: Paragraph 0075: "Finally, the summary.....in a linear order")(Fig. 1: 21), by using a predetermined display form for a predetermined period of time (Page 4: Paragraph 0074: i.e. while the user-supplied percentage remains unchanged), updating said display form by said user (i.e. changing the user-supplied the percentage to determine a new weighting threshold).

Vu et al do not teach storing the display form as historical data in said history database; and wherein said layout engine determines said layout of said document based on said historical data from said database. It would have been obvious to one of ordinary skill in the art at the time of the invention for Vu et al to have store the historical data of the previous display of the document in the history database, because Vu et al teach collecting contextual data external to the document (Pages 1 & 2: Paragraphs 0009 &

0021-0030) as training documents to provide the benefit of identifying features of the target document that are likely to be important (Page 2: Paragraph 0020).

-In regard to dependent claims 31-33, Vu et al teach an interface were the user-supplied percentage resulted in creating a view for the document (Page 4: Paragraph 0074). Vu et al does not specifically teach wherein the user can update the user-supplied percentage to create a new view. It would have been obvious to one of ordinary skill in the art at the time of the invention, that if the user of Vu et al had changed the user-supplied percentage, a new weight threshold would have been generated and a new view based on said threshold would have been displayed. Said change providing the obvious benefit of further user preferred document customization.

14. Claims 6-8, 15-18, 21-22, 28-20, and 34-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vu et al (US-2002/0078091 06/20/02) in further view of Makipaa et al (US-6,556,217 04/29/03).

-In regard to independent claims 6, 22, and 29, Vu et al teach generating a display form (Fig. 1: 21) wherein display areas to be allocated to elements (Page 4: Paragraph 0069: "section layer 32, paragraph layer 34, a phrase layer 36")(Fig. 4) constituting said document are altered in accordance with importance levels of said elements (Page 4: Paragraphs 0070-0075), while the structure of a digital document was maintained (Page 5: Paragraph 0075: "Finally, the summary.....in a linear order"); and

displaying said digital document in said generated display form (Page 5: Paragraph 0075: "Finally, the summary....in a linear order").

Vu et al do not specifically teach that all the elements of the digital document are displayed. Makipaa et al teach resizing the elements of a document so that all the elements of the document may be displayed on a display regardless of the size (column 3, lines 14-28). It would have been obvious to one of ordinary skill in the art at the time of the invention for Vu et al to have displayed all the elements of digital document on the display, because Makipaa et al teach providing the benefit of a user being able to access all the information on site pages regardless of the type of terminal being used (Abstract).

-In regard to dependent claim 7, Vu et al teach determining the importance of elements in a document and allocating a small display area (i.e. ignore the feature) for an element having a low importance (Page 4: Paragraph 0074: i.e. feature weight lower than weight threshold) and a large area (i.e. flag the feature for inclusion) for an element having a high importance (Page 4: Paragraph 0074: i.e. feature weight higher than weight threshold).

Vu et al does not teach wherein if all the elements of the document were displayed, allocating a small display area for elements of low importance and a large area for an element having high importance. It would have been obvious to one of ordinary skill in the art at the time of the invention, to display all the weighted elements of Vu et al in varying size based on importance, because all of Vu et al features maintained feature weights that designated some level of importance which would provide the user the obvious benefit of displaying all the information related the document without reducing the quick determination of what was most

important (i.e. User would be drawn to large news-story headline, but would still be able to read the entire article)(Page 1: Paragraph 0007).

In regard to dependent claim 8, Vu et al teach maintaining the linear order of the target document (Fig. 4) in the new display form (Page 5: Paragraph 0075: "Finally, the summary.....in a linear order"). Vu et al also teach based on the values of the feature weights (Page 4: Paragraph 0074), arranging a display area near the center of said display form for an element having high importance level (i.e. higher feature weight marked for inclusion in the completed summary) (Page 4: Paragraph 0074). Vu et al do not teach arranging a display area nearer the side for said display form for an element of low importance (i.e. lower feature weight marked for exclusion from the completed summary). It would have been obvious to one of ordinary skill in the art at the time of the invention for Vu et al to have moved features with feature weights less than the weight threshold (Page 4: Paragraph 0074), because Vu et al teach wherein features of low importance "can be safely ignored" (Page 1: Paragraph 0006) and thus putting said features near the side would have been obvious to put lesser emphasis on the features by placing them in the periphery of a users view.

-In regard to independent claim 15, Vu et al teach a display function (Page 4: Paragraphs 0074-0075) for displaying the digital document using a predetermined display form (Page 3: Paragraph 0038); and

A display update function (Page 4, Paragraph 0074: "user-supplied percentage"), maintaining the structure of said digital document (Page 5: Paragraph 0075: "Finally, the

summary.....in a linear order"), alters the display areas to be allocated for elements in said digital document (Page 4, Paragraph 0074: "determines a weight threshold"), and displays said digital document (Fig. 1: 21).

Vu et al do not specifically teach that all the elements of the digital document are displayed. Makipaa et al teach resizing the elements of a document so that all the elements of the document may be displayed on a display regardless of the size (column 3, lines 14-28). It would have been obvious to one of ordinary skill in the art at the time of the invention for Vu et al to have displayed all the elements of digital document on the display, because Makipaa et al teach providing the benefit of a user being able to access all the information on site pages regardless of the type of terminal being used (Abstract).

In regard to dependent claim 16, Vu et al teach wherein said display function displays an image (Page 5: Paragraph 0075: "Finally, the summary.....in a linear order") using a size that corresponds to the display area of a sentence portion in said digital document that was relevant to said image (Page 4: Paragraph 0074: i.e. displays a sentence portion when said sentence was relevant enough to have a feature weight above the weight threshold).

In regard to dependent claim 17, Vu et al teach initially said display function enlarges a display area for an element located at the head of said digital document (Page 1: Paragraph 0007: "assign greater weight....beginning of the news-story") and reduces the display areas for succeeding elements (Page 1: Paragraph 0006: "and what features can be safely ignored"); and

reducing a summarization rate for an element located at the head of said digital document (Page 4: Paragraph 0074: i.e. weight threshold decreased for head elements (Fig. 4: 32)) and increases said summarization rate for succeeding elements (Page 4: Paragraph 0074: weight threshold increased for non-head elements (Fig. 4: 38) and when successively using the update function (Page 4: Paragraph 0074: "user-supplied percentage") shifts rearward the range wherein a large display area was set (i.e. feature weight of feature greater than weight threshold) and said summarization rate was reduced for the sentence element (Page 4: Paragraph 0074: feature weight threshold reduced).

-In regard to dependent claim 18, Vu et al teach accepting an update request for a predetermined designated portion already being displayed (Page 4: Paragraph 0074: i.e. user-selectable percentage was changed), and enlarging a display area for an element in said designated portion (i.e. if the weight threshold was reduced and the element previously below the threshold was now above it then the display area would be enlarged), and displays a sentence in said designated portion (Page 4: Paragraph 0069: "section layer 32, paragraph layer 34, a phrase layer 36")(Fig. 4), instead of a sentence having a low summarization rate (i.e. below the weight threshold and not viewable).

In regard to dependent claim 34, as discussed above in the corresponding independent claim 18, Vu et al do not specifically teach that all the elements of the digital document are displayed. Makipaa et al teach resizing the elements of a document so that all the elements of the document may be displayed on a display regardless of the size (column 3, lines 14-28). It

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would have been obvious to one of ordinary skill in the art at the time of the invention for Vu et al to have displayed all the elements of digital document on the display, because Makipaa et al teach providing the benefit of a user being able to access all the information on site pages regardless of the type of terminal being used (Abstract).

In regard to independent claims 21 and 28, Vu et al teach a process for extracting the structure of a digital document (Page 4: Paragraph 0069: "the summarizer 14 parses the target document 16 into a hierarchical document tree");

a process for replacing the original contents of each element of the structure with a summary (Page 4: Paragraph 0074: "marks each feature with a display flag") prepared based on historical data (Page 3: Paragraph 0038: i.e. based on training documents & Page 2: Paragraphs 0020-0030) related to a display form previously used for said digital document (Page 3: Paragraph 3: "The feature vectors of.....of the target document 16."), and generating data related to the new form (Page 4: Paragraph 0070: "The total weights generated...by the summary generator 14."); and

a process for displaying said new display form on a display device (Page 5: Paragraph 0075: "Finally, the summary.....in a linear order").

Vu et al do not specifically teach that all the elements of the digital document are displayed. Makipaa et al teach resizing the elements of a document so that all the elements of the document may be displayed on a display regardless of the size (column 3, lines 14-28). It would have been obvious to one of ordinary skill in the art at the time of the invention for Vu et al to have displayed all the elements of digital document on the display, because Makipaa teach

et al teach providing the benefit of a user being able to access all the information on site pages

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regardless of the type of terminal being used (Abstract).

-In regard to dependent claim 35, Vu et al teach assigning importance levels to document

features based on a user defined percentage (Page 4: Paragraphs 0072-0074). Vu et al also teach

wherein the importance levels of document features were based on the popularity of the target

document (i.e. number of times accessed)(Page 2: Paragraph 0024) and web server logs

concerning the documents activity (Page 2: Paragraph 0033). Vu et al do not teach increasing

the importance levels of the document features as time increases since last displayed. It would

have been obvious to one of ordinary skill in the art at the time of the invention for Vu et al to

have increased the importance of the document features by increasing the feature weights (Page

4: Paragraph 0073) as time increased from the last user activity with the document, because Vu

et al teach that it was convenient to generate summaries of increasing levels of detail and by

increasing the importance with time would allow the user the benefit of not having to remember

all the details of a document over a long period of time.

Response to Arguments

15. Applicant's arguments filed 08/15/05 have been fully considered but they are not

persuasive.

-In regard to independent claims 1 and substantially similar related claims, Applicant

argues that Vu et al does not teach that said summaries be prepared based on digital document

display from historical data from said document. The Examiner respectfully disagrees. While Vu et al does utilize a set of training documents to categorize and prepare display of said document, Vu et al also teach wherein external data which included previous classifications of said document (Page 2: Paragraphs 0021-0030)(i.e. historical data for said document) enabled said context analyzer to identify said training documents. Thus Vu et al do teach utilizing historical data for said document to determine the layout of said document.

-In regard to dependent claim 2, Applicant argues that Vu et al utilizes said historical data to allocate a display area for each element of the digital document. The Examiner respectfully disagrees. Vu et al clearly teaches, as shown above, utilizing historical data of said document. Vu et al also clearly teach allocating a display area for each element (Paragraphs 0073-70074)(i.e. Some elements are allocated their original display area while others are allocated zero display area). The Examiner notes that there is a difference between the way the limitations of claim 2 and the newly amended limitations of claim 6, wherein claim 6 recites that all of the elements of the digital document are displayed. In claim 2 all the elements are not required to be displayed, just allocated a display area. As discussed below, the Examiner agrees that the new claim limitations of claim 6, do indeed over come the Vu et al reference.

-In regard to independent claim 6 and substantially similar related claims, the Applicant argues that Vu et al do not teach the amended limitation that all the elements of the digital documents are displayed. The Examiner agrees, but believes Vu et al in view of the newly cited Makipaa et al reference teach said limitation of all the elements being resized to be displayed on one screen.

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Conclusion

16. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US-2004/0183815

09-2004

Ebert, Peter

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adam L. Basehoar whose telephone number is (571)-272-4121. The examiner can normally be reached on M-F: 7:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve Hong can be reached on (571) 272-4124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent

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ALB

STEPHEN HONG SUPERVISORY PATENT EXAMINER

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